

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Immunometabolism, Metaflammation and Metabolic Disorders (D6)

April 14-18, 2019 • Fairmont Hotel Vancouver • Vancouver, British Columbia, Canada

Scientific Organizers: Gökhan S. Hotamisligil, Ruslan M. Medzhitov and Karine Clément

Supported by the Directors' Fund

Abstract & Scholarship Deadline: December 18, 2018 / Abstract Deadline: January 15, 2019 / Discounted Registration Deadline: February 12, 2019

### SUNDAY, APRIL 14

#### Arrival and Registration

### MONDAY, APRIL 15

#### Welcome and Keynote Address

**Gary B. Ruvkun**, Massachusetts General Hospital, Harvard Medical School, USA

*Talk Title to be Announced*

#### Immunometabolic Framework in Model Organisms

**Pierre Léopold**, University Cote d'Azur, France

*Nutrient Sensing and Growth in Drosophila*

**Heinrich Jasper**, Buck Institute for Research on Aging, USA

*Stress Signaling and Longevity*

**Antje Körner**, University Children's Hospital Leipzig, Germany

*Exploring Factors for Adipocyte Development and Adaptation in Human and Zebrafish*

**Short Talk(s) Chosen from Abstracts**

#### Workshop: Immuno-inflammation and the Gut

**Short Talks Chosen from Abstracts**

#### Components of Immunometabolic Interactions

**Anna Mae Diehl**, Duke University Medical Center, USA

*Immune Regulation of Liver Function and Response to Injury*

**Ajay Chawla**, University of California, San Francisco, USA

*Tissue Resident Macrophages in Metabolic Disease*

**Michael P. Czech**, University of Massachusetts Medical School, USA

*Immune Interactions that Drive Adipocyte Form and Function*

**Short Talk Chosen from Abstracts**

#### Poster Session 1

### TUESDAY, APRIL 16

#### Immunometabolic Positioning of Innate versus Adaptive Immune Cells

**Agnès C. Lehuen**, Institut Cochin, France

*MAIT Cells at the Crossroad of Microbiota, Inflammation and Diabetes*

**Barbara S. Nikolajczyk**, University of Kentucky College of Medicine, USA

*Changes in Immune Cell Metabolism Promote Metainflammation in Type 2 Diabetes*

**Hans-Michael Dosch**, Hospital for Sick Children, Canada

*TRPV1-based Disease Reversal in Type 1 Diabetes Patients*

**Diane Mathis**, Harvard Medical School, USA

*Adipose Tissue T-Regulatory Cells*

**Short Talk(s) Chosen from Abstracts**

#### Signaling Networks Regulating Immunometabolic Responses

**Ruslan Medzhitov**, HHMI/Yale University School of Medicine, USA

*Interfacing Immune Response and Metabolism*

**Roger J. Davis**, HHMI/University of Massachusetts Medical School, USA

*Stress Signaling Pathways in Immunometabolism*

**Vishwa Deep Dixit**, Yale University, USA

*Aging and the Metabolic Inflammasome*

**Short Talk Chosen from Abstracts**

#### Poster Session 2

### WEDNESDAY, APRIL 17

#### Organelle Dynamics and Function in Immunometabolism

**Gökhan S. Hotamisligil**, Harvard University, USA

*Endoplasmic Reticulum and Immunometabolic Responses*

**Speaker to be Announced**

**Shawn C. Burgess**, University of Texas Southwestern Medical Center, USA

*Mitochondrial Metabolism in Fatty Liver Disease*

**Ling Yang**, University of Iowa, USA

*Autophagic Regulation in Obesity*

**Short Talk(s) Chosen from Abstracts**

#### Nutrients and Metabolites Critical for Immunometabolic Responses

**Barbara B. Kahn**, Beth Israel Deaconess Medical Center, Harvard Medical School, USA

*Immunometabolic Regulation by Novel Lipid Species*

**Christopher K. Glass**, University of California, San Diego, USA

*Nature and Nurture of Microglia Identity and Function*

**Tony K.T. Lam**, Toronto General Research Institute, Canada

*Nutrient Sensing in the Gut*

**Short Talk Chosen from Abstracts**

#### Poster Session 3

### THURSDAY, APRIL 18

#### Translation of Immunometabolism

**Marc Y. Donath**, University Hospital Basel, Switzerland

*Targeting Inflammation in Metabolic Disease*

**Naveed Sattar†**, University of Glasgow, Scotland

*Metabolic and Cardiovascular effects of TNF Neutralization*

**Elif A. Oral**, University of Michigan, USA

*New Anti Inflammatory Interventions in Obesity and Insulin Resistance*

**Short Talk(s) Chosen from Abstracts**

#### Immunometabolic Links in Human Studies

**Karine Clément**, INSER/Sorbonne universite, France

*The Role of Microbiota in Human Metabolic Disease*

**Gerald I. Shulman**, HHMI/Yale University School of Medicine, USA

*Mitochondrial Regulation of Hepatic Lipid Metabolism in Man:*

*Implications for NAFLD/NASH and Type 2 Diabetes*

**Elizabeth K. Speliotes**, University of Michigan, USA

*Human Genetics of Body Weight*

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**Evan D. Rosen**, Beth Israel Deaconess Medical Center, Harvard University, USA

*Transcriptional and Epigenetic Control of Metabolism*

**Meeting Wrap-Up: Outcomes and Future Directions (Organizers)**

**FRIDAY, APRIL 19**

**Departure**